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contains all the

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from all fields of
life 6 All topics
have been penned
in a clear and easy
language 7.

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provided to better
essay writing

Writing an essay is
a perfect art blend
of intellect and

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creativity that
needs discipline of
mind, analytical
power, and good
vocabulary to
express thoughts
in an appropriate
context. To craft a
purposeful essay,
one must have
thorough
knowledge of

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topics,
expressions,
grammatical
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thoughts all
together. With the
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certainly helped in
enhancing

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capabilities to present subject matter in a concise and organized manner. The essays in this book have been classified under different categories, giving views on every genre. Latest

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topics have also been covered with accurate facts and data wherever required. Use of simple and standard language has been kept in mind so that students with different caliber are benefited. A

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separate section
has been made for
'Important

Quotations' so that
students can use
them in writing
essay when they
require. This book
is highly useful for
all kinds of
examination from
academic to

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government
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Issues, Political
Issues, Economic
Issues, Science
and Technology,
Environmental
Issues, Education,
Health and Sports,
Renowned

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Personalities,
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Preverbal and
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Idiomatic,

Miscellaneous
Issues, Important
Quotations

This book
comprises select
proceedings of the
annual conference
of the Indian
Geotechnical

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Society. The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering. The book presents papers on geotechnical

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applications and
case histories,
covering topics

such as (i)

Characterization of
Geomaterials and
Physical

Modelling; (ii)

Foundations and
Deep Excavations;

(iii) Soil

Stabilization and

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Ground
Improvement; (iv)
Geoenvironmental
Engineering and
Waste Material
Utilization; (v) Soil
Dynamics and
Earthquake
Geotechnical
Engineering; (vi)
Earth Retaining
Structures, Dams

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and
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Embankments;
(vii) Slope Stability
and Landslides;
(viii)
Transportation
Geotechnics; (ix)
Geosynthetics
Applications; (x)
Computational,
Analytical and
Numerical

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Modelling; (xi)
Rock Engineering,
Tunnelling and
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Constructions; (xii)
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Geotechnical
Engineering and
Case Studies; and
(xiii) Others
Topics: Behaviour
of Unsaturated

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and Marine
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Geotechnics,
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and GIS, Field
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Instrumentation
and Monitoring,
Retrofitting of
Geotechnical
Structures,
Reliability in

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Geotechnical
Education, Codes
and Standards,
and other relevant
topics. The
contents of this
book are of
interest to
researchers and
practicing

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engineers alike.
This book presents
innovative

research and its
applications in the
development of
transportation
infrastructure, and
discusses the
latest trends,
challenges and
unsolved problems

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in the field of
transport
technology. The

book also presents
a range of
solutions to
problems faced by
the rapidly growing
economies of the
developing world.
Core challenges
confronting

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policymakers in
the field of
transport

technology include
traffic congestion,
air pollution, traffic
fatalities and
injuries, and
petroleum
dependence. At
the same time, the
increased use of

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hybrid and electric
vehicles is
changing

consumer needs
and behaviors.

The solutions
discussed in this
book will

encourage and
inspire

researchers,
industry

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professionals and
policymakers alike
to put these
methods into
practice.

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Soil Mechanics
and Foundations
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IGC 2018

Design of Steel
Structures is designed
to meet the
requirements of

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Khosrow Ardubata
undergraduate
students of civil and
structural engineering.

This book will also
prove useful for
postgraduate students
and serve as an
invaluable reference
for practicing
engineers unfamiliar
with the limit state
design of steel
structures. The book
provides an extensive

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coverage of the design of steel structures in accordance with the latest code of practice for general construction in steel (IS 800 : 2007). The book is based on the modern limit state approach to design and covers topics such as properties of steel, types of steel structures, important

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areas of structural steel technology, bolted connections, welded connections, design of trusses, design of plate girders, and design of beam columns. Each chapter features solved examples, review questions, and practice problems as well as ample illustrations to supplement the text. This detailed

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introduction to
transportation
engineering is designed
to serve as a
comprehensive text for
under-graduate as well
as first-year master's
students in civil
engineering. In order
to keep the treatment
focused, the emphasis
is on roadways
(highways) based
transportation

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systems, from the
perspective of Indian
conditions.

This book brings
together scientific
experts in different
areas that contribute
to the railway track
and transportation
engineering challenges,
evaluate the state of
the art, identify the
shortcomings and
opportunities for

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research, and promote the interaction with the industry. In particular, scientific topics that are addressed in this book include railway ballasted track degradation/settlement problems and stabilization/reinforcement technologies, switches and crossings and related derailments

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causes, train-induced vibrations and mitigation measures, operations, management, and performance of ground transportation, and traffic congestion and safety procedures. Recent Developments in Pavement Engineering

The Handbook of Highway Engineering

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Design Of Steel
Structures (By Limit
State Method As Per
Is: 800 2007)

Problematic Soils and
Geoenvironmental
Concerns

Jute Geotextiles and
their Applications in
Civil Engineering

Engineering Geology

This book on

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*shall be useful for
B.E./B.Tech & M.E/
M.Tech students of
Civil Engineering. It
shall also be useful
for practicing
Engineering and
designers.*

*Comprehensive and
practical, Pavement
Asset Management
provides an essential*

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resource for
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*educators, students
and those in public
agencies and
consultancies who are
directly responsible
for managing road
and airport
pavements. The book
is comprehensive in
the integration of
activities that go into*

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*having safe and cost-
effective pavements
using the best*

*technologies and
management*

processes available.

*This is accomplished
in seven major parts,
and 42 component
chapters, ranging
from the evolution of
pavement*

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*management to date
requirements to
determining needs
and priority
programming of
rehabilitation and
maintenance,
followed by
structural design and
economic analysis,
implementation of
pavement*

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*management systems,
basic features of
working systems and
finally by a part on
looking ahead. The
most current
methodologies and
practical applications
of managing
pavements are
described in this one-
of-a-kind book. Real*

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world up-to-date examples are provided, as well as an extensive list of references for each part.

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and the latest

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Association of State
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Transportation
Officials) design
codes

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RelStat'19, 16-19
October 2019, Riga,
Latvia*

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M.E/ M.Tech.
Students of Civil
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for Practising*

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*BOOK: The need
and urgency of Hill
Roads cannot be
minimized in
considerations of: (i)
National Strategic
and Security
considerations
which require
adequate roads for*

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Military, Army use.

(ii) Rich forest minerals and oil wealth exist in the hilly terrain, which require exploitation in an organized and planned manner. [?]

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THE AUTHOR: R.S.

Gahilowt (Padam

Shree) Consultant

Ex. Chairman and

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Hindustan Steel
Works Construction
Ltd. Ex. Director,
Steel Authority of
India. Ex.*

*Superintending
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Executive Engineer.
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examines their
application in*

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countries and
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important resource
considers the
differences and
special
considerations
across countries,
providing useful*

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book's authors also
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stories for coping
with increasing
traffic-related
problems, examining*

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*both constraints and
the reasons behind
them. Presents a
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reference on country-
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Management
Airport Engineering
So far working

*stress method
was used for
the design of
steel
structures.*

*Nowadays whole
world is going
for the limit
state method*

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*which is more
rational.*

Indian

national code

IS:800 for the

design of

steel

structures was

revised in the

year 2007

incorporating

limit state

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method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has

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explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities

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will soon

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adopt design

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of steel

structures as

per IS: 2007

and this book

will serve as

a good

textbook. A

sincere effort

has been made

to present

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design
Engineering
procedure
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using simple

*language, neat
sketches and
solved
problems.*

*This volume
comprises
select papers
presented
during the*

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Geotechnical
Conference

2018. This volume focuses on discussing the many challenges encountered in geoenvironmental engineering.

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covers
sustainability*

*aspects
related to
geotechnical
engineering,
problematic
soils and
ground
improvement,
use of*

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*geosynthetics
and concepts
of soil*

*dynamics. The
contents of
this book will
be useful to
researchers
and
professionals
working in geo-
environmental*

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*engineering
and to policy
makers*

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ering Highway E*

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June 12-16,
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This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to

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dependability
problems
encountered when
dealing with
complex systems
in practice. The
book presents the
most noteworthy
methods and
results discussed
at the
International
Conference on

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Reliability and
Statistics in
Transportation

and

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(RelStat), which
took place in Riga,
Latvia on October
16 – 19, 2019. It
spans a broad
spectrum of
topics, from
mathematical

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models and design
methodologies, to
software

engineering, data
security and
financial issues, as
well as practical
problems in
technical systems,
such as
transportation and
telecommunication
s, and in

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education.

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Modern highway engineering reflects an integrated view of a road system's entire lifecycle, including any potential environmental impacts, and seeks to develop a

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sustainable
infrastructure
through careful
planning and
active
management. This
trend is not
limited to
developed nations,
but is recognized
across the globe.

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authority
Terrestrial mass
movements (i.e.

cliff collapses, soil
creeps, mudflows,
landslides etc.)

are severe forms
of natural

disasters mostly
occurring in

mountainous

terrain, which is

subjected to

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specific geological, geomorphological and climatological conditions, as well as to human activities. It is a challenging task to accurately define the position, type and activity of mass movements for the purpose of

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creating inventory
records and
potential

vulnerability
maps. Remote
sensing
techniques, in
combination with
Geographic
Information
System tools,
allow state-of-the-
art investigation

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of the degree of potential mass movements and modeling surface processes for hazard and risk mapping.

Similarly, through statistical prediction models, future mass-movement-prone areas can be

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identified and damages can to a certain extent be minimized. Issues of scale and selection of morphological attributes for the scientific analysis of mass movements call for new developments in

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data modeling and
spatio-temporal
GIS analysis. The

book is a product
of a cooperation
between the
editors and
several
contributing
authors,
addressing
current issues and
recent

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developments in
GI technology and
mass movements

research. Its
fundamental
treatment of this
technology
includes data
modeling,
topography,
geology,
geomorphology,
remote sensing,

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artificial neural
networks,
binomial

regression, fuzzy
logic, spatial
statistics and
analysis, and
scientific

visualization. Both
theoretical and
practical issues
are addressed.

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2019 on
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Interaction Group
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Pavement Asset
Management
This book gathers
peer-reviewed
contributions
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Innovative
Technologies for
Clean and
Sustainable
Development, held

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in Chandigarh,
India, on February
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and cover topics
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economics of
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and the International
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also at practitioners,
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covers a wide range
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will be valuable to
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And Makes

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Application Of The
Principles Of Soil
Mechanics In
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The Si Units, Gain
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This is a concise,
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treatment of the
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foundations.
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behavior under various loadings and types of piles and their installation, including consideration of soil parameters. It provides step-by-step design procedures for piles subject to

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vertical loading
and pullout, lateral,
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eccentric loads, or
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and for piles in
permafrost. Also
describes load test
procedures and
their interpretation
and buckling of
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with and without
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fiber and jute yarns, types and functions of jute geotextiles, and the mechanism of control of surficial soil with jute geotextiles. The content also includes applications such as the mechanisms of functioning of jute geotextiles in strengthening road sub-grade and

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controlling river bank
erosion, stabilization
of earthen

embankments,
management of
settlement of railway
tracks, and
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soil by use of pre-
fabricated vertical
jute drains (PVJD).
Geotextile standards,
properties and test
methods, variants of

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bring together
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industries,
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to actively engage
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